

Abstract

[Abstract]

[Problem] To provide an electronic throttle valve control system which can prevent rapid rotation of a throttle valve reliably when the control system has a failure.

[Solution] A throttle valve 10 for controlling the amount of intake air to an internal combustion engine, an electric motor 20 for driving the throttle valve 10, and a rotational speed reduction mechanism 30 for reducing the rotation of the electric motor 20 to control the rotation of the throttle valve 10 are provided. The rotational speed reduction mechanism 30 has an urging mechanism 31 for urging the throttle valve 10 in the closing direction. The rotational speed reduction mechanism 30 is connected to an attenuation mechanism 38(20) for attenuating the speed at which the throttle valve 10 is rotated in the closing direction by the urging force of the urging mechanism 31 when the control system has a failure. The attenuation mechanism 38 is constituted of the electric motor 20 in a regenerative mode or an air damper.

[Selected Drawing] Fig. 1